SANTA CRUZ BIOTECHNOLOGY, INC.

MDC (R-19): sc-74223



BACKGROUND

Chemokines have been implicated in the regulation of stem/progenitor cell proliferation and movement. The C-C chemokines TARC (for thymus and activation-regulated chemokine, also designated small inducible cytokine A17) and MDC (for macrophage-derived chemokine, also designated small inducible cytokine A22 or STCP-1, for stimulated T cell chemotactic protein 1), are expressed in the thymus and spleen. C-C chemokine receptor CCR4, expressed by T helper type 2 polarized cells, is a high affinity receptor for both TARC and MDC. TARC is important in the recognition of skin vasculature by circulating T cells and in directing lymphocytes that are involved in systemic as opposed to intestinal immunity to its target tissues. MDC is involved in chronic inflammation and dendritic cell and lymphocyte homing. MDC and TARC lack suppressive activity against immature subsets of myeloid progenitors, which have been stimulated to proliferate by multiple growth factors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ccl22 (mouse) mapping to 8 C5.

SOURCE

MDC (R-19) is a rat monoclonal antibody raised against full length recombinant MDC of mouse origin.

PRODUCT

Each vial contains 100 μg lgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

MDC (R-19) is recommended for detection of MDC of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MDC siRNA (m): sc-39360, MDC shRNA Plasmid (m): sc-39360-SH and MDC shRNA (m) Lentiviral Particles: sc-39360-V.

Molecular Weight of MDC: 3 kDa.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.